


NRCS United States Department of Agriculture
Natural Resources Conservation Service
Helping People Help the Land.

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Air Quality in Oregon


Air and Energy Training



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Air Concerns in Oregon

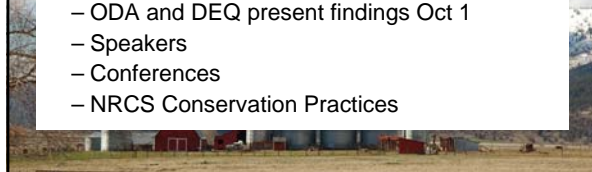
- Odors specifically from dairies
- Haze specifically from smudge pots
- Dust from feedlots and particular farming operations
- Migration of chemicals on particulates, specifically perchlorates affecting fruit



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Clean Air Agriculture Senate Bill 235

- Clean Air Act / Agricultural Exemptions
- Creation of Dairy Air Task Force
 - Air Shed Analysis to OSHA
 - Costs including energy
 - July 1, 2008
 - ODA and DEQ present findings Oct 1
 - Speakers
 - Conferences
 - NRCS Conservation Practices



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New Practices

- Air Quality for Orchards and Vineyards
 - Remove smudge pots
 - Diesel engines for running fans
- Composted Bedded Packs
 - Reduce need for liquid storage and source of many odors in storage and application



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Orchards and Vineyards

- Frost Control
- Handling of prunings and removals
- Potentially floor management



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Smudge Pots





Smudge Pot Haze



Wind Machine



Composted Bedded Packs Why this alternative is attractive to producers

- Reduces the volume needed for liquid waste storage
 - Only need liquid storage for material that is scraped from feed alley and parlor water
- Cow comfort
 - The bedded pack is fluffy and soft and conforms to cows bodies when laying down
 - Provides good footing
- Manure stored and animals housed in same facility



Addressing Resource Concerns

- Water Quality
 - minimizing liquid storage reduces risk of water quality contamination
- Air Quality
 - compost has less foul odors compared to a liquid storage tank
- Energy
 - Reduces the need for handling large amounts of liquid waste
 - reduced costs for pumping liquid and applying or hauling liquid waste
 - Lessens need for agitation in liquid storage
 - No need for mechanical separation of liquid/solid waste



